

# Understanding and Effective Use of the 2016 CBC 11B California Accessibility Standards

Lincoln , CA  
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Presented By  
**The City of Lincoln**





## Presenters

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## Session 2 Topics

- Overview of Access Laws
- The ADA & Program Access
- Accessible Parking
- Ramps & Curb Ramps
- Restrooms
- Signs
- Doors
- Recreational Facilities



## Overview Of Federal Access Laws And Regulations

# It's The Law

## Overview Of Federal Access Laws And Regulation



## ADA

### Standards ... Guidelines..... What is the difference?

- Guidelines are issued by the Access Board
- Standards by the designated agencies such as DOJ and DOT
- Guidelines are what these Agencies must follow in developing their standards
- Standards are what the public must follow to comply with the law

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## Americans With Disabilities Act

### 1990 Americans with Disabilities Act

Civil Rights Law  
(Not a Building Code)  
**Five Titles of ADA**

- Title I: Employment
- Title II: State and Local Government
- Title III: Public Accommodations and Commercial Facilities
- Title IV: Communications
- Title V: Miscellaneous Provisions

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# Americans With Disabilities Act

## Title II – State and Local Government

### What Is Covered?

- Covers all activities regardless of size or receipt of Federal funding
- Requires governments give an equal opportunity to benefit from all of their programs, services, and activities
  - Public education, employment, transportation, recreation, health care, social services, courts, voting, and town meetings
- Required to follow specific architectural standards in new construction and alterations of their buildings.
- Relocate programs or otherwise provide access

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# Americans With Disabilities Act

## Title II – State and Local Government

### What Is Covered? *cont'd*

- Communicate effectively with people who have hearing, vision, or speech disabilities
- Required to take actions that **WOULD NOT** result in undue financial and administrative burdens
- Required to make reasonable modifications to policies, practices, and procedures where necessary to avoid discrimination
  - Unless they can demonstrate that doing so would fundamentally alter the nature of the service, program, or activity being provided.

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# Americans With Disabilities Act

Section 35.105

State and Local Government – Title II

## Self-evaluation

A public entity shall:

- 1) Identify all of the public entity's programs, activities, and services; and
- 2) Review all the policies and practices that govern the administration of the programs, activities, and services
- 3) Take immediate remedial action to eliminate the impediments to full and equivalent participation.

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# Americans With Disabilities Act

## Title III – Public Accommodations and Commercial Facilities

**Public Accommodations** are private entities who own, lease, lease to, or operate facilities

### What Facilities Are Covered?

- Businesses and nonprofit service providers that are public accommodations
- Privately operated entities offering certain types of courses and examinations
- Privately operated transportation
- Commercial facilities

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# Americans With Disabilities Act

## Title III – Public Accommodations and Commercial Facilities

### Scoping

- **Basic nondiscrimination** requirements that prohibit exclusion, segregation, and unequal treatment
- **Architectural standards** for new and altered buildings
- **Reasonable modifications** to policies, practices, and procedures
- **Effective communication** with people with hearing, vision, or speech disabilities

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# Americans With Disabilities Act

## Readily Achievable Barrier Removal 1991

- Required for the last 26 years

## Alterations To Existing Buildings 1992

- Required for the last 25 years

## New Construction For First Occupancy 1993

- Required for the last 24 years

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# ADA Application and Administration

Title 28 - Chapter I - Part 36

## Definitions

### Readily Achievable

Easily accomplishable and able to be carried out without much difficulty or expense.

Factors to be considered include:

- (1) The nature and cost of the action needed under this part;
- (2) The overall financial resources of the site or sites involved in the action; the number of persons employed at the site; the effect on expenses and resources; legitimate safety requirements that are necessary for safe operation, including crime prevention measures; or the impact otherwise of the action upon the operation of the site;

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# ADA Application and Administration

Title 28 - Chapter I - Part 36

## Definitions

### Readily achievable (*cont'd*)

- (3) The geographic separateness, and the administrative or fiscal relationship of the site
- (4) The overall financial resources of any parent corporation or entity
- (5) The type of operation or operations of any parent corporation or entity, including the composition, structure, and functions of the workforce of the parent corporation or entity.

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# Americans With Disabilities Act

## Section 35.151(b)(2) State and Local Government – Title II

### Alterations

The disproportionality test (20%) contained in the path of travel standards is not applicable in determining whether providing program access results in an undue financial and administration burden

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## Origins of California Access Laws

### Publicly funded

1968

- A117.1 was specified as the interim standard until Title 24 (CBC) took effect in 1982
- Required in California for 49 years

### Privately funded

1970

- Required in California for 47 years

### Alterations

1973

- Required in California for 44 years

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## CBC Application

Chapter 1, Section 1.9.1.1 (Gov. Code 4450)

### Publicly Funded Buildings, Structures, Sidewalks, Curbs and Related Facilities

- Constructed with state, county or municipal funds
- Leased, rented, contracted, sublet or hired by government
- Used for congregate residences or 1 and 2 family dwellings
- When alterations, structural repairs or additions to existing publicly funded buildings or facilities
- When permits are not required, (see GC 4451(c)), the codes in effect at the time of construction

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## CBC Application

Chapter 1, Section 1.9.1.2 (H&S Code 19952)

### **Privately Funded Public Accommodations and Commercial Facilities:**

- Any building, structure, facility, complex, or improved area, which is used by the general public
- Any sanitary facility available to the public, clients or employees
- Any curb or sidewalk intended for public use
- All existing public accommodations, when alterations, structural repairs or additions are made

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## CBC Application

Chapter 1, Section 1.9.1.3 (Gov. Code 4450 & 12955.1(d))

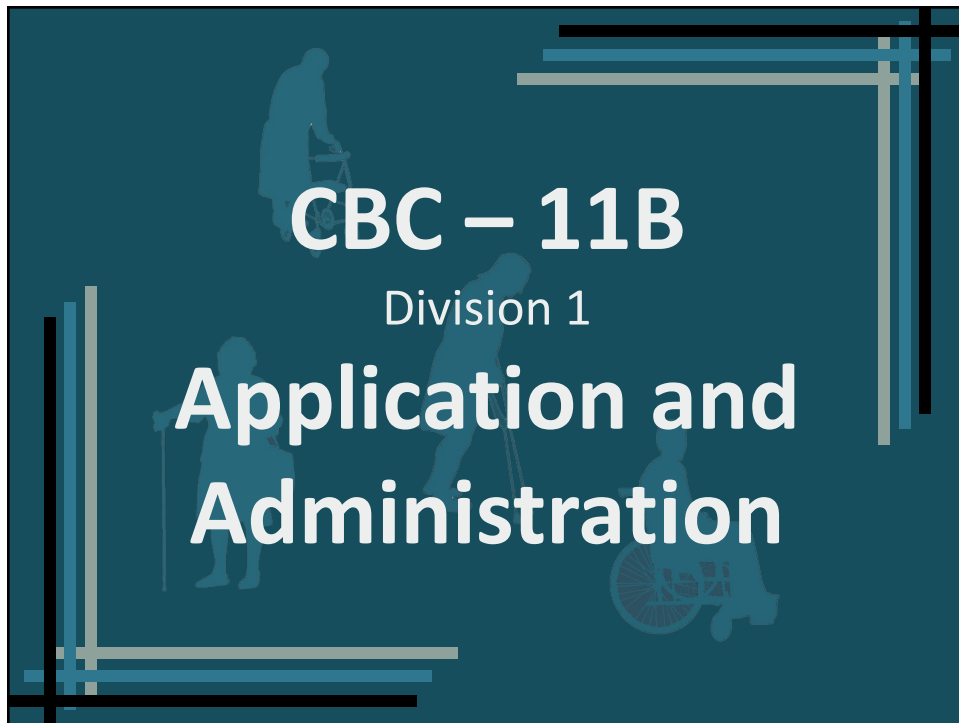
### **Public Housing and Private Housing Available for Public Use**


Examples:

- Halfway Houses
- Battered Women's Shelters
- Homeless Shelters

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## CBC Conventions

Section 11B-104.1

### Dimensions

All dimensions that are not stated as a min. or max. (range) are **ABSOLUTE**.

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## CBC Conventions

### Section 11B-104.1.1

#### Construction and Manufacturing Tolerances

- If there is a range then that is considered the “construction tolerance”.



- Applies only where dimensions are stated as single dimensions or as simple minimums or maximums

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## CBC Definitions

#### Electric Vehicle (EV)

- An automotive- type vehicle for on-road use

#### Electric Vehicle (EV) Charger

- Off-board charging equipment used to charge an electric vehicle

#### Electrical Vehicle Charging Station (EVCS)

- One or more electric vehicle charging **spaces**
- The number of electric vehicle charging stations shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.

#### Electric Vehicle (EV) Connector

- Establishes an electrical connection to the electric vehicle

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## CBC Definitions

### Stair

A change in elevation, consisting of one or more risers.

### Unreasonable Hardship

An unreasonable hardship exists when the enforcing agency finds that compliance with the building standard would make the specific work of the project affected by the building standard unfeasible, based on an overall evaluation of the following factors:

1. The cost of providing access.
2. The cost of all construction contemplated.
3. The impact of proposed improvements on financial feasibility of the project.
4. The nature of the accessibility which would be gained or lost.
5. The nature of the use of the facility under construction and its availability to persons with disabilities.

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## CBC Scoping

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## CBC Existing Buildings and Facilities

### Section 11B-202.4

#### Path of Travel Requirements in Alterations, Additions and Structural Repairs

An accessible path of travel to the specific area of alteration or addition shall be provided. Shall include:

- A primary entrance to the building or facility,
- Toilet and bathing facilities serving the area,
- Drinking fountains serving the area,
- Public telephones serving the area, and
- Signs.

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## CBC Existing Buildings and Facilities

### Section 11B-202.4 Ex 2

#### Path of Travel Requirements in Alterations, Additions and Structural Repairs *(cont'd)*

##### Safe Harbor

- Elements of a path of travel that have been constructed or altered in compliance with immediately preceding edition of the CBC shall not be required to retrofit such elements
  1. A primary entrance to the building or facility,
  2. Toilet and bathing facilities serving the area,
  3. Drinking fountains serving the area,
  4. Public telephones serving the area, and
  5. Signs.

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## CBC Existing Buildings and Facilities

### Section 11B-202.4 Ex 8

#### Path of Travel Requirements in Alterations, Additions and Structural Repairs *(cont'd)*

- When the total construction cost does not exceed the current threshold
  - Compliance shall be limited to the actual work of the project
- AND**
- Access shall be provided (path of travel) to a primary entrance, sanitary facilities, telephones, signs and drinking fountains to the extent that it can be completed without incurring disproportionate costs.

<http://www.dgs.ca.gov/dsa/Programs/progAccess/threshold.aspx>

2017 - \$156,162.00

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## CBC Existing Buildings and Facilities

### Section 11B-202.4 Ex 8 (cont'd)

#### Path of Travel Requirements in Alterations, Additions and Structural Repairs (cont'd)

- When the total construction cost exceed the current threshold  
**AND**
- The enforcing agency finds an unreasonable hardship
  - Compliance shall be provided by equivalent facilitation or to the greatest extent possible without creating an unreasonable hardship
  - The min. cost of compliance is 20 percent of the adjusted construction cost of alterations, structural repairs or additions

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## CBC Existing Buildings and Facilities

### Section 11B-202.4 Ex 8

#### Path of Travel Requirements in Alterations, Additions and Structural Repairs (cont'd)

Building alteration or addition (threshold = \$156,162.00)

- A.  $20\% \times \$156,000 = \$30,200$  Max. towards POT (cannot claim unreasonable hardship)
- B.  $20\% \times \$157,000 = \$31,400$  **Min.** towards POT (can request unreasonable hardship)
- In either scenario A or B the money goes only to a single POT to the area of remodel
- If less than the dollar amount is needed to comply, that is all that has to be done.

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## CBC Parking Spaces

### Section 11B-208.1

#### General

Electric vehicle charging stations are not parking spaces

### Section 11B-208.2

#### Minimum Number

Hospital Outpatient Facilities (including free-standing buildings providing outpatient clinical services of a hospital)	10% of patient and visitor
Rehabilitation Facilities and Outpatient Physical Therapy Facilities	20% of patient and visitor

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## CBC Parking Spaces

### Section 11B-208.2

#### Van Parking Spaces

For every **six** or fraction of six parking must be a van parking space

- Van parking space are permitted to be grouped in multi-story parking facilities

### Section 11B-209.2.1

#### Passenger Loading Zones

At least one passenger loading zone in every continuous 100 linear feet of loading zone space, or fraction thereof

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## CBC Toilet Facilities and Bathing Facilities

### Section 11B-213.2 Ex

#### Toilet Rooms and Bathing Rooms

In alterations if it is technically infeasible to comply

- A single unisex toilet room or bathing room is acceptable

#### **Provided**

It is located in the same area and on the same floor as the inaccessible toilet or bathing rooms

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## CBC Toilet Facilities and Bathing Facilities

### Section 11B-213.3.1

#### Plumbing Fixtures and Accessories

- At least 5% but no fewer than one of the toilet compartments, or five percent of the combination of toilet compartments and urinals **New 2016**
- At ambulatory toilet compartment must be provided if:
  - 6 or more toilet compartments **OR** a combination of urinals and toilet compartments
- Ambulatory toilet compartments must be provided in the same number as accessible toilet compartments

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## CBC Toilet Facilities and Bathing Facilities

### Section 11B-213.3.3

#### Urinals

- At least 10% but no fewer than one urinal must be accessible.

### Section 11B- 213.3.4

#### Lavatories

- At least 10% but no fewer than one lavatories must be accessible and shall not be located in a toilet compartment.

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## CBC Signs

### Section 11B-216.8

#### Toilet Rooms and Bathing Rooms

If existing toilet and bathing rooms are non-compliant

- Directional signs indicating the location of the nearest accessible toilet or bathing room
  - Sign must have an ISA
  - Posted in or near the lobby

Geometric symbols are not required at entrances within private or semi-private rooms or spaces **New 2016**

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## CBC Baby Changing Tables

### Section 226.4

- Be with reach range
- Allow a forward approach
- Provide knee and toe space
- When deployed shall not obstruct accessible routes by more than 4 inches
- Shall not be located in accessible toilet compartments within multi accommodation toilet facility

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## Electrical Vehicle Charging Stations

### Section 228.3.1

New 2016

#### Existing Facilities

- Requirements only apply to new facilities and to alterations of existing facilities

### Section 228.3.2

#### Operable Parts

- Electric vehicle connectors shall not be required to have an activating force of 5 pounds maximum

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## Electrical Vehicle Charging Stations

Section 228.3.2

New 2016

### Minimum Number

If an EVCS is provided at more than one facility on a site

- Each facility is calculated separately

**Exceptions:**

Not for use by general public, intended for designated vehicle or driver, owner at their residence.

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New 2016

**TABLE 11B-228.3.2.1**  
**ELECTRIC VEHICLE CHARGING STATIONS FOR PUBLIC USE AND COMMON USE**

TOTAL NUMBER OF EVCS AT A FACILITY <sub>1</sub>	MINIMUM NUMBER (by type) OF EVCS REQUIRED TO COMPLY WITH SECTION 11B-812 <sub>1</sub>		
	VAN ACCESSIBLE	STANDARD ACCESSIBLE	AMBULATORY
1 to 4	1	0	0
5 to 25	1	1	0
26 to 50	1	1	1
51 to 75	1	2	2
76 to 100	1	3	3
101 and over	1, plus 1 for each 300, or fraction thereof, over 100	3, plus 1 for each 60, or fraction thereof, over 100	3, plus 1 for each 50, or fraction thereof, over 100

1. Where an EV charger can simultaneously charge more than one vehicle, the number of EVCS provided shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.



## CBC Detectable Warnings and Detectable Directional Texture

Section 11B-247.1.2.1 through 11B-247.1.2.7

### Where Required

- Platform Edges
- Curb Ramps
- Islands or Cut-through Medians
- Bus Stops
- Hazardous Vehicular Areas
  - If a walk crosses or adjoins a vehicular way, and is not separated by curbs, railings or other elements the boundary shall be defined by a continuous detectable warning
- Reflecting Pools
- Track crossings

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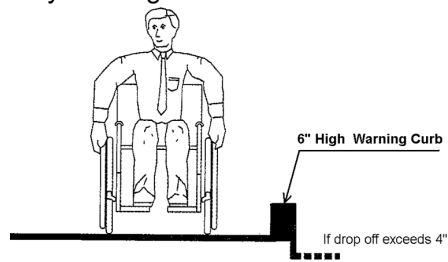


## CBC Changes in Level

Section 11B-303.5

### Warning Curbs

- Abrupt changes in level exceeding 4 inches between walks, sidewalks or other pedestrian ways and adjacent surfaces
  - Identified by warning curbs min. 6 inches in height

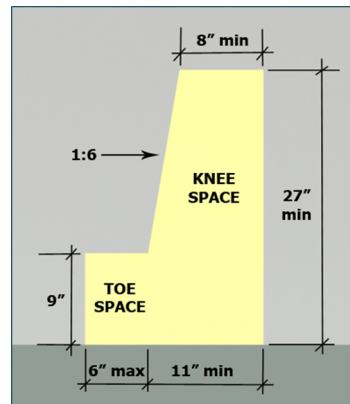
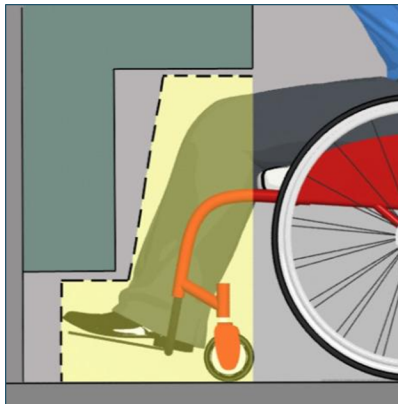


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## CBC Knee and Toe Clearance



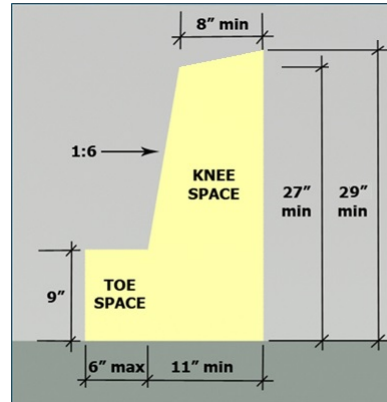
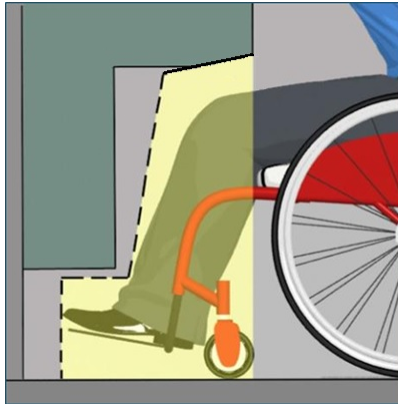
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## CBC Knee and Toe Clearance

### Lavatories Only



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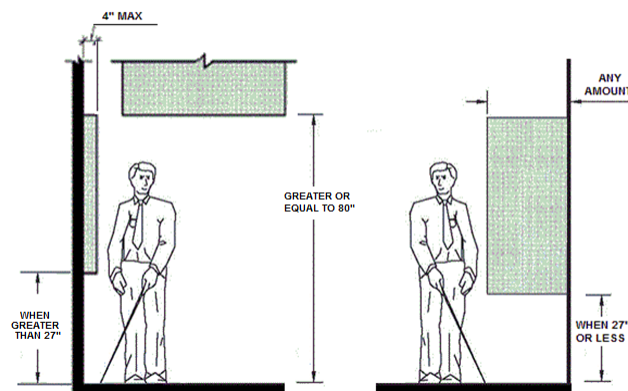
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## CBC Protruding Objects

### Section 11B-307

### Protrusion Limits



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## Ramps



## CBC Ramps

Section 11B-405.2 thru 11B405.6

### Slope, Cross Slope, Clear Width, Rise

- 1:12 max. running slope
- 1:48 max. cross slope
- 48 inches min. width

**Exception:** Handrails may project 3½ inches on both sides

- 30 inches max. rise

## Ramp Landing

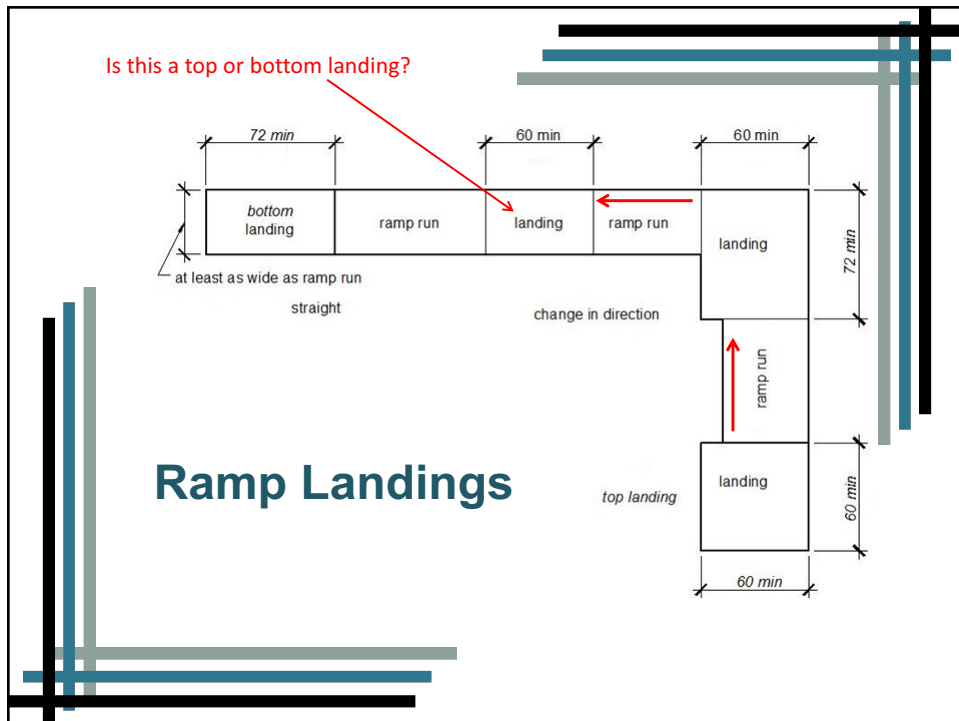



## CBC Ramps

Section 11B-405.7.1 thru 11B405.7.4

### Landings

- 1:48 max. slope in any direction
- At least as wide as the widest ramp run
- 60 inches by 60 inches top landing
- 72 inches in the direction of ramp run at the bottom
- 72 inches in the direction of downward travel at changes of direction





## CBC Ramps

Section 11B-405.8

### Handrails

- Handrails are required on both sides of ramps
- Handrails are not required on ramps serving door landings
  - Runs less than 6 inches in rise

**or**

- 72 inches in length

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## CBC Ramps

### Section 11B-405.9

#### Edge Protection

- Edge protection required at each side of ramp runs and landings

### Section 11B-405.9.2

#### Curb or Barrier

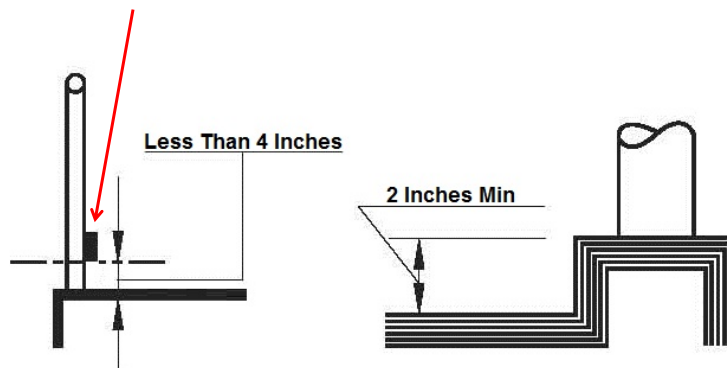
- 2 inch high min. curb,  
or
- Continuous barrier less than 4 inches AFF or ground

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Should be located at least flush on the ramp side of the handrail to prevent wheels from being obstructed.

## Wheel Guides



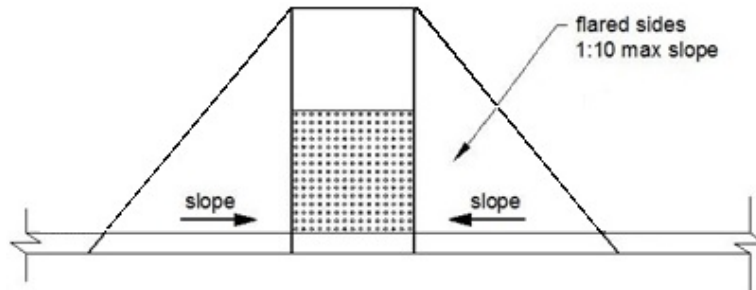


## CBC Curb Ramps, Blended Transitions and Islands

Section 11B-406.2.2

### Curb Ramps

- Curb ramp flares max. 1:10



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## CBC Curb Ramps, Blended Transitions and Islands

Section 11B-406.5

### Common Requirements

#### Location

- Must not be located in
  - Vehicular traffic lanes
  - Parking spaces
  - Parking access aisles

#### Landings

- 48 inches min. clear length at tops of curb ramps and at blended transition
- Clear width equals ramp width

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# CBC

Division 5

## GENERAL SITE AND BUILDING ELEMENTS

### Accessible Parking





## CBC Parking

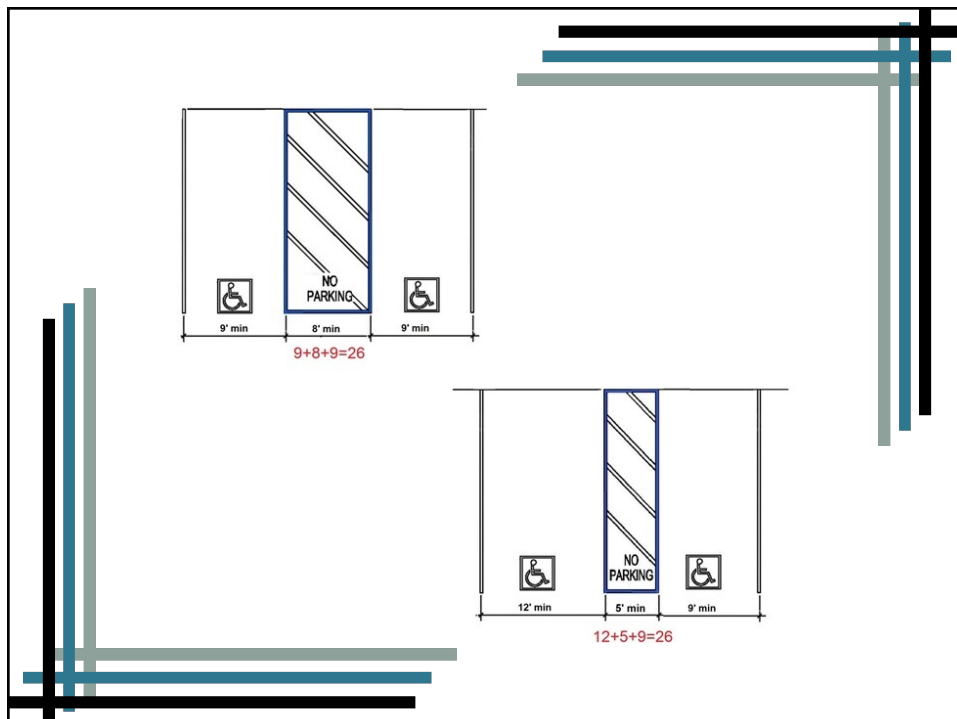
### Section 11B-502

### Parking Spaces

- 18 feet long min.
- 9 feet min. for car spaces
- 12 feet min. for van spaces
- **Exception:** 9 feet min. for van spaces with an 8 foot min. access aisle
- 1:48 max. slope in any direction

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## CBC Parking

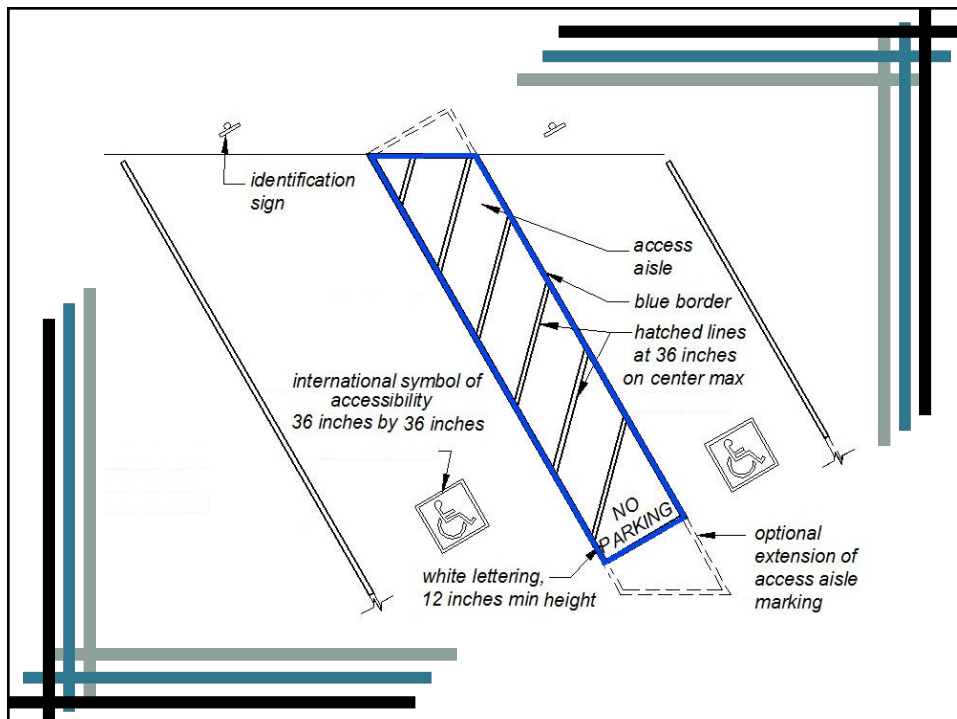
### Section 11B-502.3

#### Access Aisles

- Adjoin an accessible route
- 60 inches wide min.
- Extend the full required length of parking space
- Do not overlap vehicular ways
- 1:48 max. slope in any direction
- Permitted on either side of a standard accessible stall

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## CBC Parking

### Section 11B-502.5

#### Vertical Clearance

- 98 inches min.
  - Parking spaces
  - Access aisles
  - Vehicular routes serving them

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#### Parking Identification



## Parking Identification



In lieu of  
"Minimum Fine \$250"



## CBC Parking

Section 11B-502.6

### Identification

#### Parking Space Marking

- 36 min. inches by 36 min. inches white ISA on blue background
  - 6 inches max. from the centerline of the parking space aligned at bottom of space
- OR
- Space outlined in blue or painted blue
- 36 inches by 36 inches white (or suitable contrasting color) ISA
  - 6 inches max. from the centerline of the parking space aligned at bottom of space

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## CBC Parking

### Section 11B-502.6

#### Identification *(cont'd)*

##### Signs

- ISA
- Van spaces “Van Accessible”
- 60 inches min. to bottom AFF
  - Exception:** 80 inches min. AFF if within accessible route
- “Minimum Fine \$250”
- Reflectorized 70 square inches

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## CBC Parking

### Section 11B-502.7

#### Arrangement

- Not required to travel behind other spaces than the one which they are parked
- Wheel stops only when necessary to prevent encroachment into accessible routes

### Section 11B-502.8

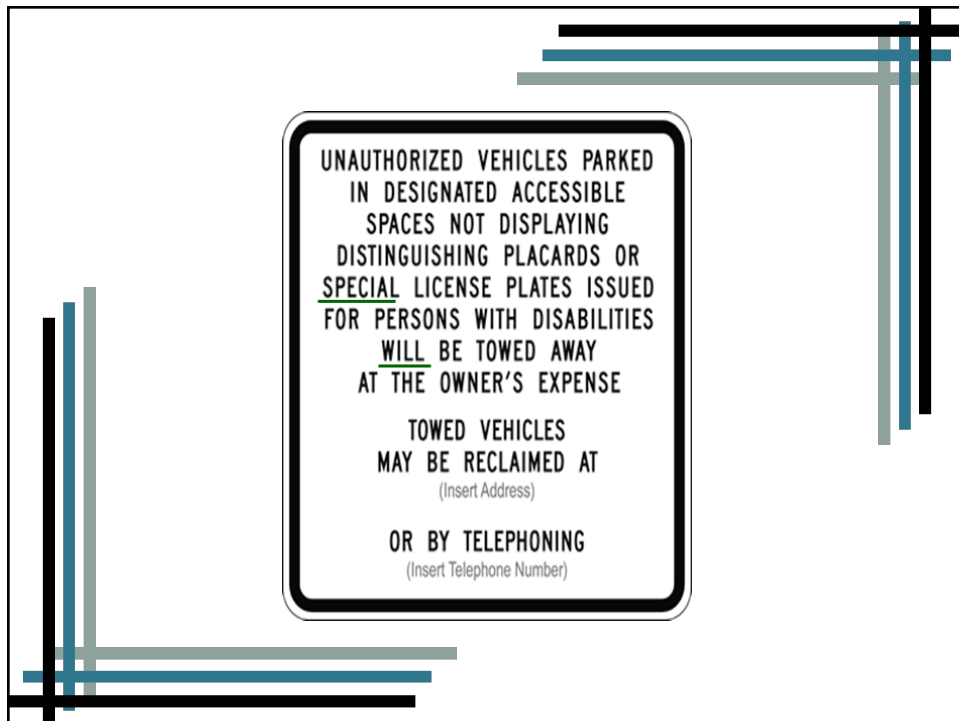
#### Additional Signage


##### Tow-away

- 17 inches by 22 inches with min. 1 inch high lettering
  - Each entrance or each accessible space
  - Has the word “special”

72

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## CBC Handrails

**Section 11B-505**

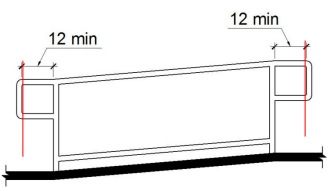
### Handrail Extensions

- Same direction of stair flight or ramp run


**Ramps**

- Return to a wall, guard, landing, or continuous to the handrail of an adjacent ramp

**Exception:** In alterations, where the extension would create a hazard - may be turned 90 degrees from the stair flight or ramp run.



74





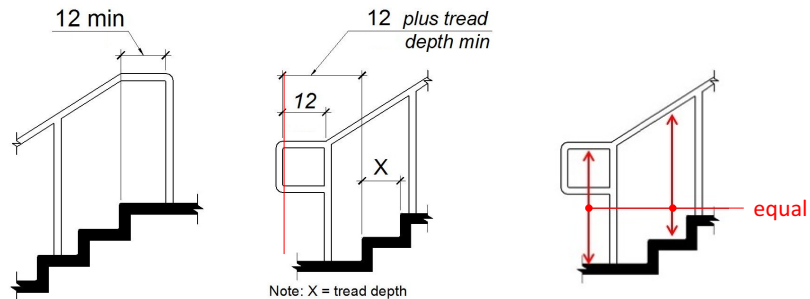
## CBC Handrails

Section 11B-505

### Handrail Extensions (cont'd)

#### Stairs

- Return to a wall, guard, landing, or continuous to the handrail of an adjacent stair flight



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## CBC

Division 6

# PLUMBING ELEMENTS AND FACILITIES



## CBC Toilet and Bathing Rooms

### Section 603

#### Clearances

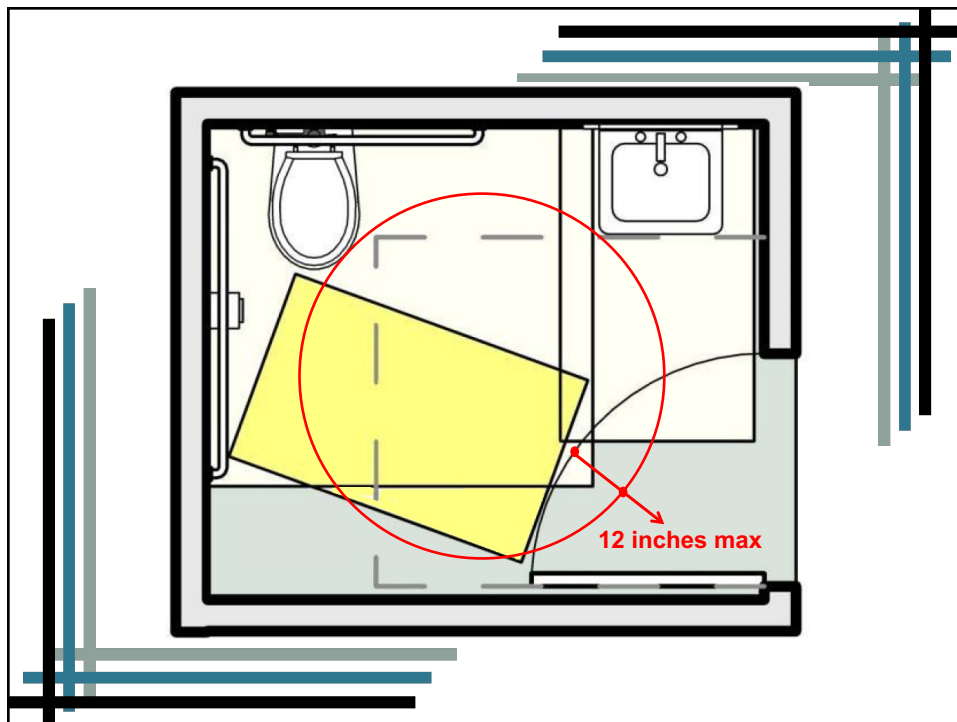
- Turning space required within the room
- Clear floor spaces, clearance at fixtures and turning space is permitted to overlap
- Doors may not swing into clear floor space
  - 12 inches max. into turning space for doors other than the door to the accessible compartment

**Exception:** Room is for individual use and a clear floor space provided beyond arc of door swing

- Door may swing into clear floor space

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## CBC Toilet and Bathing Rooms

### Section 603

#### Mirrors

- 40 inches to reflecting surface if above lavatories or countertops
- 35 inches to reflecting surface AFF

OR

#### Coat Hooks, Shelves and Medicine Cabinets

**Coat hooks** – 15 inches to 48 inches

**Shelves** – 40 inches to 48 inches

**Medicine Cabinet shelves** – min. 1 at 44 inches max.

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## CBC Toilet and Bathing Rooms

### Section 603

#### Accessories

- One of each type
    - On an accessible route
    - 40 inches max. AFF
- EXCEPTION:** Baby changing tables

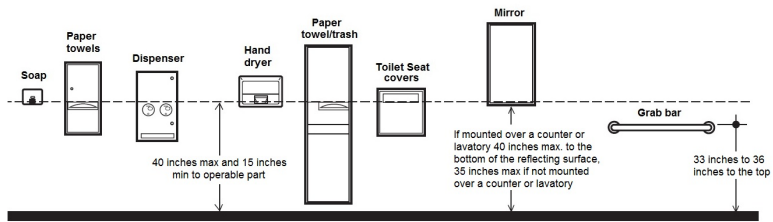
#### Guest Room Toilet and Bathing Rooms

- Rooms NOT required to provide mobility features
  - Touch the wheelchair to any fixture

80

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## Comic Strip



## CBC Water Closets and Toilet Compartments

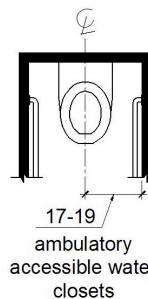
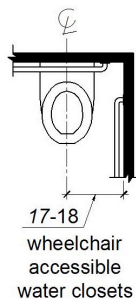
### Section 604

### Water Closet Location

- 17 inches to 18 inches to centerline from wall or partition

### Ambulatory

- 17 inches to 19 inches to centerline from wall or partition





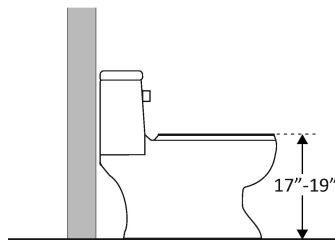
## CBC Water Closets and Toilet Compartments

### Section 604

#### Seats

- 17 inches min. to 19 inches max.
- 2 inch max. seat height

**Exception:** In alterations 3 inch max. seat height



83

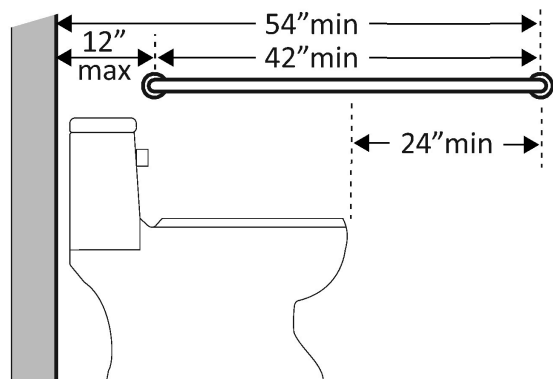
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## CBC Water Closets and Toilet Compartments

### Section 604

#### Grab Bars – Side Wall



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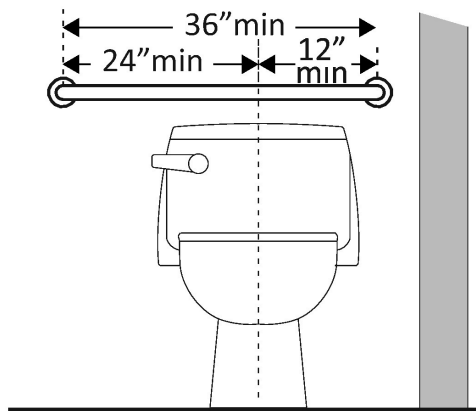
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## CBC Water Closets and Toilet Compartments

### Section 604

#### Grab Bars – Rear Wall



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## CBC Grab Bars

### Section 609

#### Position of Grab Bars

- 33 inches min. to 36 inches max. AFF to the top of the gripping surface

#### Alternate Configuration

- L-shaped or U-shaped grab bars are permitted

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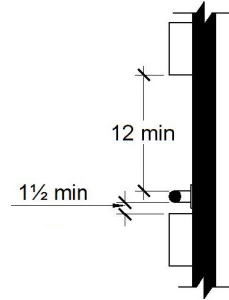


## CBC Grab Bars

### Section 609

### Spacing

- Wall and the grab bar - 1½ inches
- Grab bar and projecting objects below and at the ends - 1½ inches min.
- Grab bar and projecting objects above - 12 inches min.



**Exception:** shower controls, fittings, grab bars

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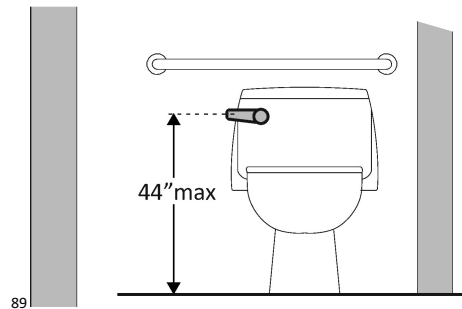


## CBC Water Closets and Toilet Compartments

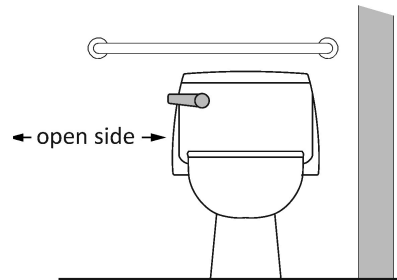
### Section 604

#### Flush Controls

- 44 inches max. AFF
- Located on the open side



89



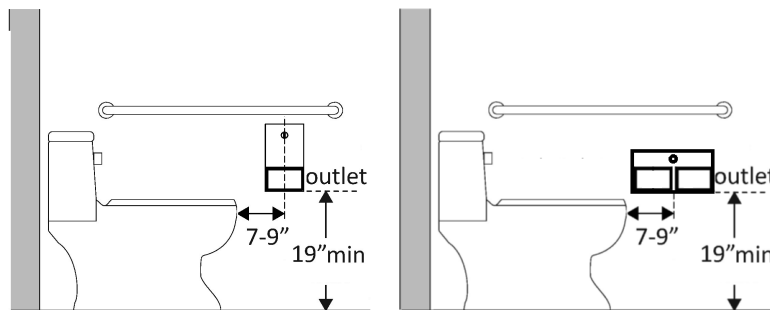
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## CBC Water Closets and Toilet Compartments

### Section 604

#### Toilet Paper Dispenser



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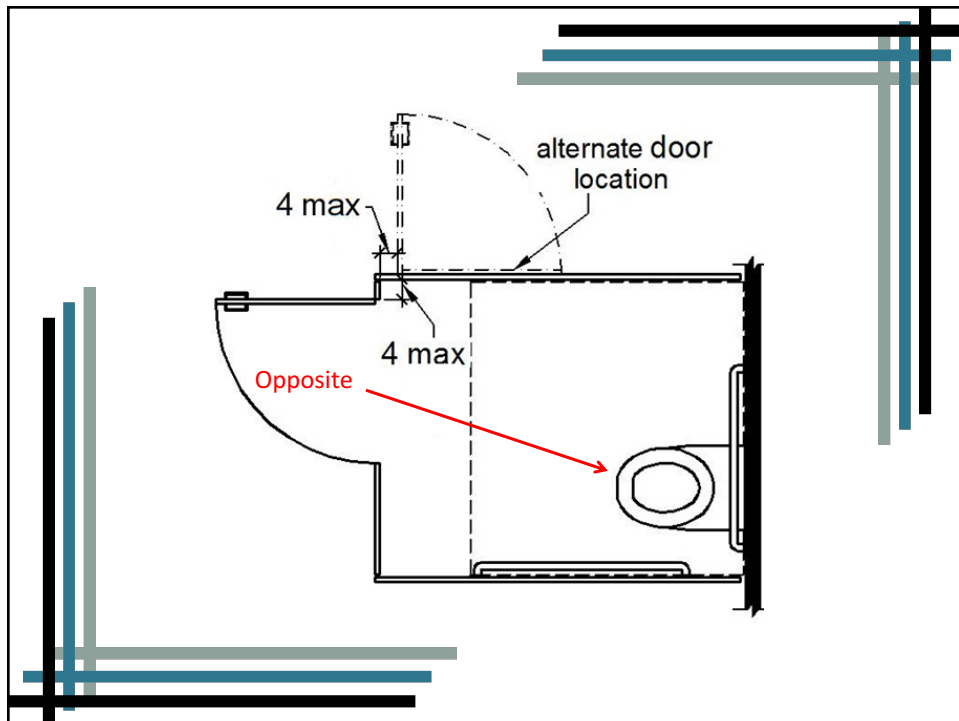
## CBC Water Closets and Toilet Compartments


### Section 604

### Wheelchair Accessible Compartments

#### Doors

- Located on the front or side wall or partition farthest from water closet
- Self-closing
- Compliant operating hardware on both sides of door
- 4 inches max. from nearest perpendicular wall





## CBC Water Closets and Toilet Compartments

**Section 604**


### Wheelchair Accessible Compartments

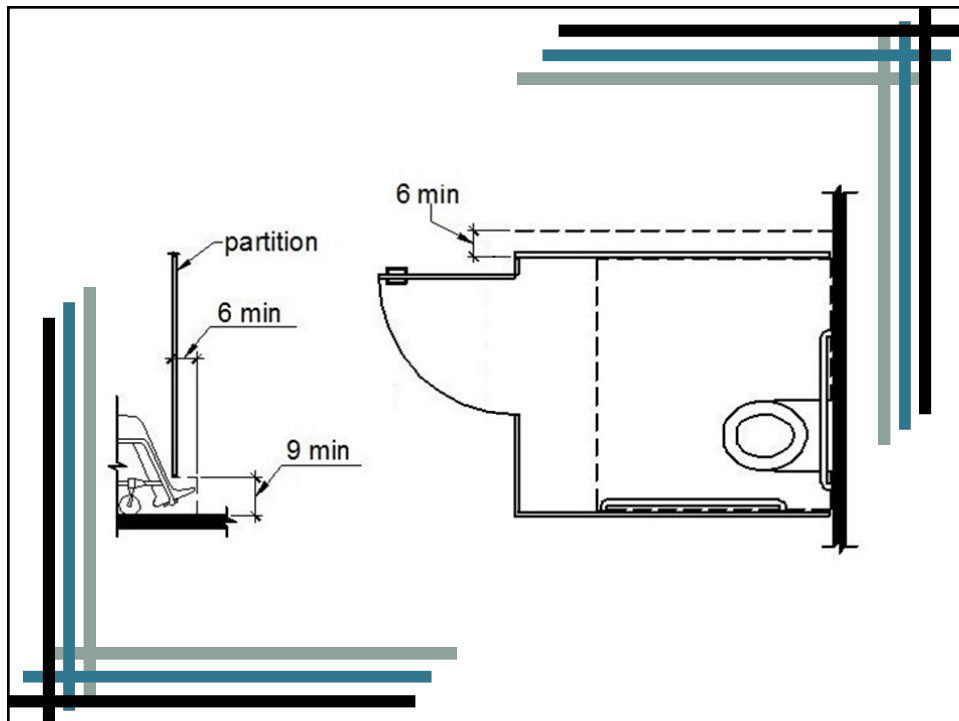
#### Toe Clearance


- Min one side
  - 9 inches min. AFF
  - 6 inches min. beyond compartment

**Exception:** Not required in a compartment greater than 66 inches wide.

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## CBC Lavatories and Sinks

**Section 11B-606**

**Height**

- 34 inches max. height of rim or counter

**Faucets**

- Metering faucets to remain open for 10 seconds min.

**Exposed pipes**

- Water supply and drain pipes under lavatories and sinks shall be insulated or configured to protect against contact


**Adjacent side Wall**

- 18 inches min. to centerline

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**CBC  
Signs**

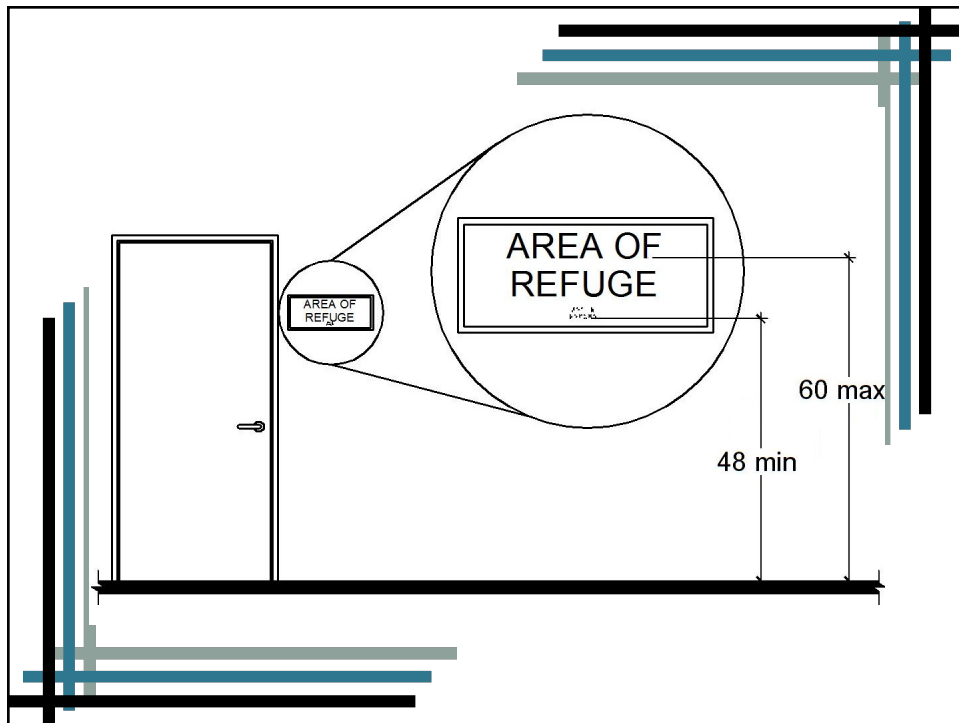
**Section 11B-703**


**Height Above Finish Floor or Ground**

- 48 inches min. AFF measured from the baseline of the lowest Braille cells
- 60 inches max. AFF measured from the baseline of the highest line of raised characters

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# CBC Signs

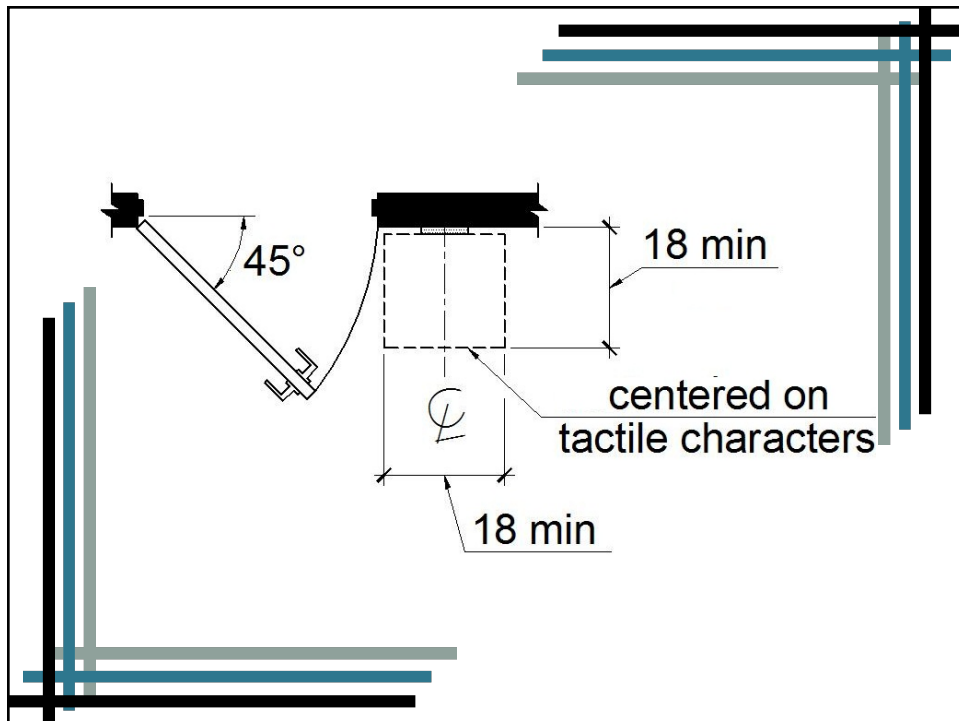
Section 11B-703

## Location

- Latch side, or
- On inactive leaf, or
- On right of a double door
- Nearest adjacent wall

100

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## CBC Signs

Section 11B-703

### International Symbol of Accessibility

- White figure on a blue background

**Exception:** AHJ may approve other colors to complement décor or unique design

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## CBC Signs

### Section 11B-703

#### Toilet and Bathing Facilities Geometric Door Symbols

- 58 inches min. and 60 inches max. AFF to centerline of the symbol
- Within 1 inch of the centerline of door
- Contrast with door

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## CBC Signs

Section 11B-703

### Toilet and Bathing Facilities Geometric Door Symbols

#### Men's Toilet and Bathing Facilities

- Equilateral triangle
- ¼ inch thick
- With edges 12 inches long



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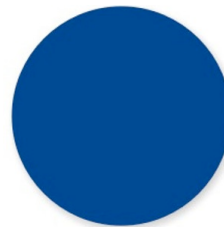
## CBC Signs

Section 11B-703

### Toilet and Bathing Facilities Geometric Door Symbols

#### Women's Toilet and Bathing Facilities

- 12 inch diameter circle
- ¼ inch thick



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## CBC Signs

### Section 11B-703

#### Toilet and Bathing Facilities Geometric Door Symbols

##### Unisex Toilet and Bathing Facilities

- 12 inch, ¼ inch thick triangle  
**on top of**
- 12 inch diameter, ¼ inch thick circle



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## CBC Detectable Warnings

### Section 705

#### Color and Contrast

- Transit boarding platform edges, bus stops, hazardous vehicular areas, reflecting pools, and track crossings
  - Yellow and approximate FS 33538 of Federal Standard 595C
- Everywhere else
  - 70 percent minimum visual contrast with adjacent walking surfaces

**Exception:** Where a 70 percent minimum contrast is not provided:

- 1-inch wide minimum visually contrasting surface shall separate the detectable warning from adjacent walking surfaces.
- Surface shall contrast with both the detectable warning and adjacent walking surfaces either light-on-dark, or dark-on-light.

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## CBC Detectable Warnings

### Section 705

#### Resiliency

- Differ from adjoining surfaces in resiliency or sound-on-cane contact

**Exception:** curb ramps, islands or cut-through medians

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## CBC Detectable Warnings

### Section 705

#### Location

##### Curb Ramps

- 36 inches min. in the direction of travel
- Full width of the ramp run (less 2 inches) excluding any flared sides
- Edge nearest the curb is 6 inches min. to 8 inches max. from the face of the curb

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## Location (not)



## CBC Detectable Warnings

### Section 705

### Location (*cont'd*)

#### Bus Stops

- 36 inches min. in depth full width of the boarding/alighting area

#### Hazardous Vehicular Ways

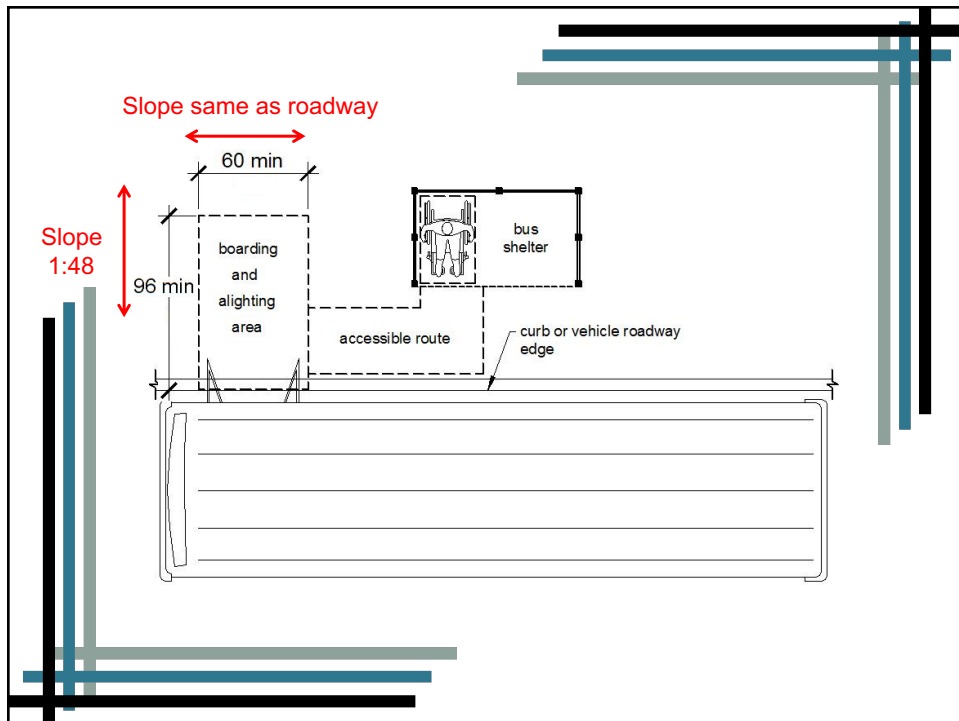
- 36 inches min. in depth

#### Reflecting Pools

- 24 inches min. to 36 inches max. in depth

#### Track Crossings

- 36 inches in the direction of pedestrian travel and extend the full width of circulation path



## Electrical Vehicle Charging Stations

Section 812

### Ground Surfaces - Clearance

- Floor and ground surfaces shall be stable, firm, and slip resistant
- Access aisles shall be at the same level as the vehicle space
- Slopes exceeding 1:48 are not permitted
- Detectable warnings are not be permitted in vehicle spaces and access aisles.
- Vertical clearance 98 inches minimum

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## Electrical Vehicle Charging Stations

### Section 812.5.1

#### Accessible Routes to Building

- Serving a building or facility
  - Located on accessible route to building entrance
- Not serving a building or facility
  - Located on accessible route to a pedestrian entrance to the EV charging facility.

### Section 812.5.2

#### Accessible Route to Charger

Charger to parking space it serves must located on an accessible route

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## Electrical Vehicle Charging Stations

### Section 812.5.3 and 812.5.4

#### Accessible Routes -Arrangement

- A curb, wheel stop, bollards, or other barrier shall be provided if required to prevent encroachment into adjacent accessible routes.
- Designed so persons **are not** required to travel behind vehicle spaces other than the vehicle space in which their vehicle has been left to charge.

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## Number of EV Parking Spaces

Table 11B-228.3.2.1 ELECTRICAL VEHICLE CHARGING STATIONS FOR PUBLIC AND COMMON USE			
TOTAL NUMBER OF EVCS AT A FACILITY <sup>1</sup>	MINIMUM NUMBER (by type) OF EVCS REQUIRED TO COMPLY WITH 11B-812 <sub>1</sub>		
	VAN ACCESSIBLE	STANDARD ACCESSIBLE	AMBULATORY
1 to 4	1	0	0
5 to 25	1	1	0
26 to 50	1	1	1
51 to 75	1	2	2
76 to 100	1	3	3
101 and more	1, plus 1 for each 300, or fraction thereof, over 100	3, plus 1 for each 60, or fraction thereof, over 100	3, plus 1 for each 50, or fraction thereof, over 100

1. Where an EV charger can simultaneously charge more than one vehicle, the number of EVCS provided shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.

## Size of EV Parking Spaces

	Parking space		Access Aisle			
	Width	Length <sup>1</sup>	Width	Length	Location	Marked
Van Accessible	12 feet	18 feet	5 feet	Full length of space they serve	Passenger side	Yes
Standard Accessible	9 feet	18 feet	5 feet	Full length of space they serve	Either side	Yes
Ambulatory	10 feet	18 feet	Not required			
Drive-up (similar to gas station)	17 feet	20 feet				

1. Where the long dimension of vehicle spaces is parallel to the traffic flow in the adjacent vehicular way, the length of vehicle spaces shall be 240 inches minimum.



## Electrical Vehicle Charging Stations

### Section 812.8

#### Identification Signs

##### Accessible Stalls Required to be Identified with a Sign

Number of EV Spaces	Van Stalls	Standard Stalls	Ambulatory Stalls	Drive-up Stalls
4 or less	Not required to be identified		Not required to be identified	
5 to 25	1	Not required to be identified		
26 or more	All required van stalls	All required standard stalls		

### Section 812.8.7

#### Location

Same as other parking identification signs

- \$ 250 minimum sign not required

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## Electrical Vehicle Charging Stations

### Section 812.7.2

#### Access Aisle Markings

- Border and hatched lines a maximum of 36 inches on center
  - Contrasting color to the access aisle surface
  - Not in Blue
- “NO PARKING” within each access aisle in letters a minimum of 12 inches in height

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## Electrical Vehicle Charging Stations

### Section 812.9

#### Vehicle Space Marking

- “EV CHARGING ONLY”
- 12 inches high letters minimum
- Centerline of the text shall be:
  - 6 inches maximum from the centerline of the vehicle space
  - Lower side aligned with the end of the parking space length

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## Electrical Vehicle Charging Stations

### Section 812.10

#### Electric Vehicle Chargers

- Clear floor space
- Reach ranges
- Tight grasping pinching or twisting
- Characters: 3/16 min. height, san serif, contrast with background

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## Electrical Vehicle Charging Stations

### Section 812.10

### Electric Vehicle Chargers

#### Location (new)

- Adjacent to, and within the projected width of, the vehicle space being served.
  - Combined projected width when serving two spaces

#### Location (alteration)

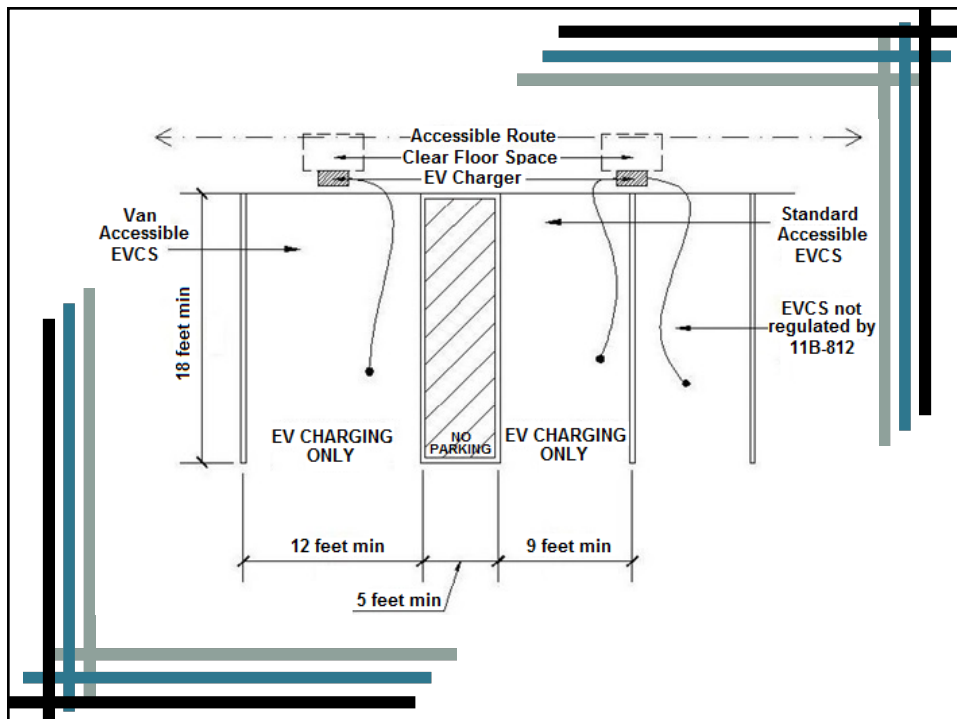
- If accessible route not provided at head end of space or access aisle
  - Within projected width of access aisle 36 inches max of the head end

#### Location (space parallel to vehicle way)

- Adjacent to, and 48 max. from the head or foot end

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## Doors, Doorways, and Gates

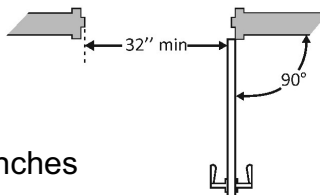


## CBC Doors, Doorways, and Gates

Section 11B-404.2.3

### Clear Width

- 32 inches min.
- No projections below 34 inches
- 4 inches max. projection between 34 – 80 inches



### Exceptions

1. Door closers and door stops permitted at 78 inches min. AFF



## CBC Doors, Doorways, and Gates

Table 11B-404.2.4.1  
Maneuvering Clearances at Manual Swinging Doors and Gates

Type of Use		Minimum Maneuvering Clearance	
Approach Direction	Door or Gate Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch side unless noted)
From front	<b>Pull</b>	<b>60 inches</b>	18 inches <sup>2</sup>
From front	Push	48 inches	0 inches <sup>1</sup>
From hinge side	<b>Pull</b>	<b>60 inches</b>	36 inches
From hinge side	Push	<i>44 inches<sup>2</sup></i>	22 inches <sup>3</sup>
From latch side	<b>Pull</b>	<b>60 inches</b>	24 inches
From latch side	Push	<i>44 inches<sup>4</sup></i>	24 inches

1. Add 12 inches if closer and latch are provided.  
 2. Add 4 inches if closer and latch are provided.  
 3. Beyond hinge side.  
 4. Add 4 inches if closer is provided.  
 5. Add 6 inches at exterior side of exterior doors.

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## CBC Doors, Doorways, and Gates

Minimum Maneuvering Clearance for Doors and Gates on the **PULL** Side

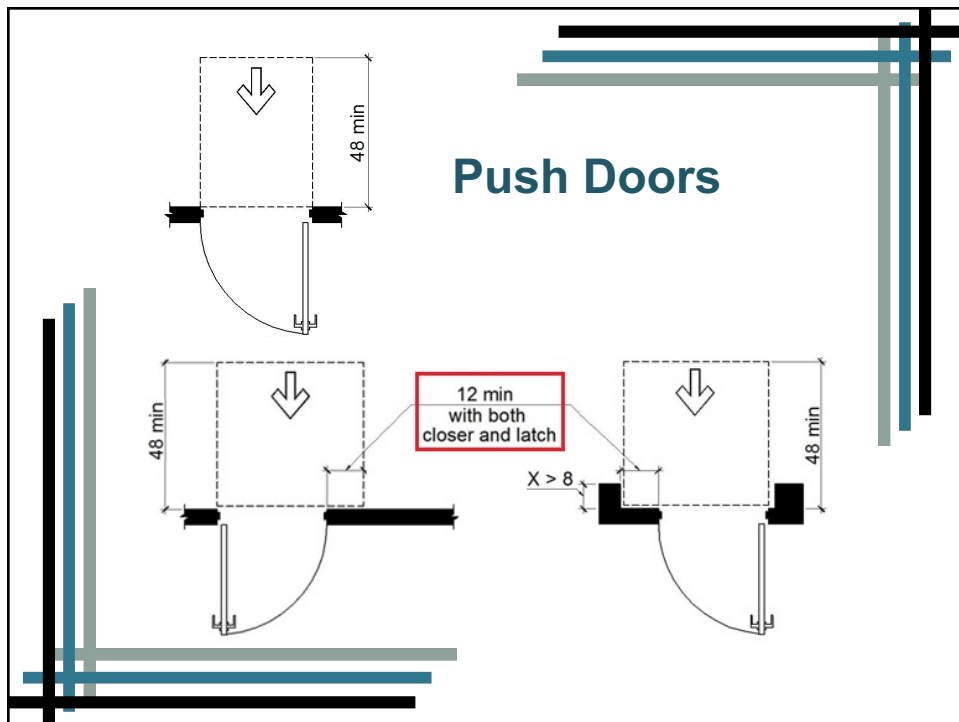
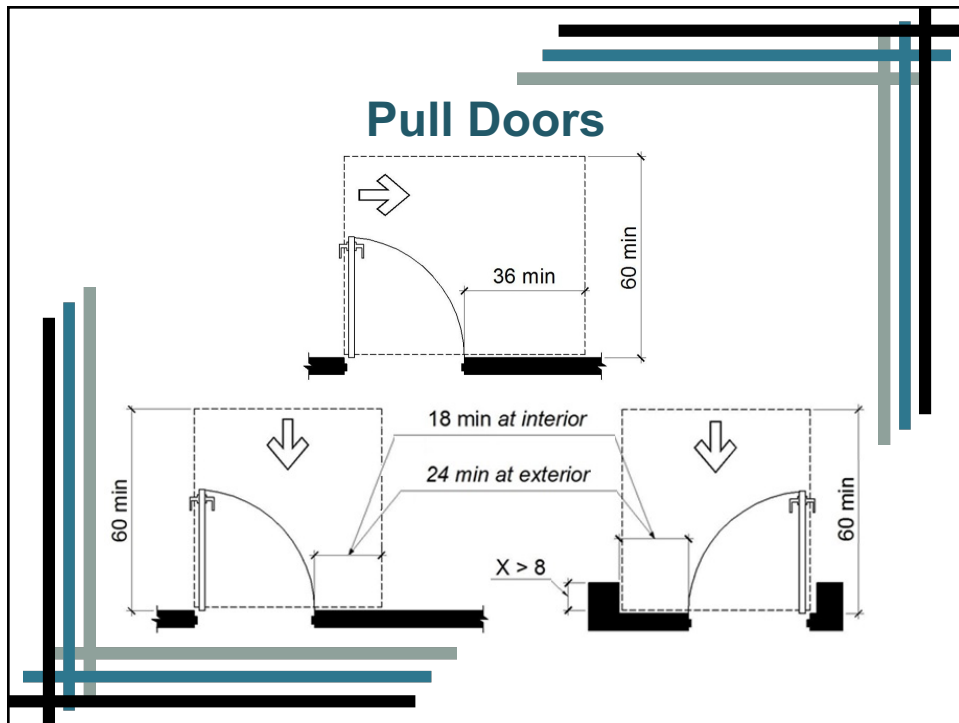
Approach Direction	Perpendicular to Doorway	Parallel to Doorway beyond latch side
FRONT - Interior	60 inches	18 inches
FRONT - Exterior	60 inches	24 inches
HINGE SIDE	60 inches	36 inches
LATCH SIDE	60 inches	24 inches

Minimum Maneuvering Clearance for Doors and Gates on the **PUSH** Side

Approach Direction	Perpendicular to Doorway	Parallel to Doorway
FRONT	48 inches	0
FRONT - Closer and Latch are provided	48 inches	12 inches beyond the LATCH SIDE
HINGE SIDE	44 inches	22 inches beyond the HINGE SIDE
HINGE SIDE - Closer and Latch are provided	48 inches	22 inches beyond the HINGE SIDE
LATCH SIDE	44 inches	24 inches beyond the LATCH SIDE
LATCH SIDE - Closer is Provided	48 inches	24 inches beyond the LATCH SIDE

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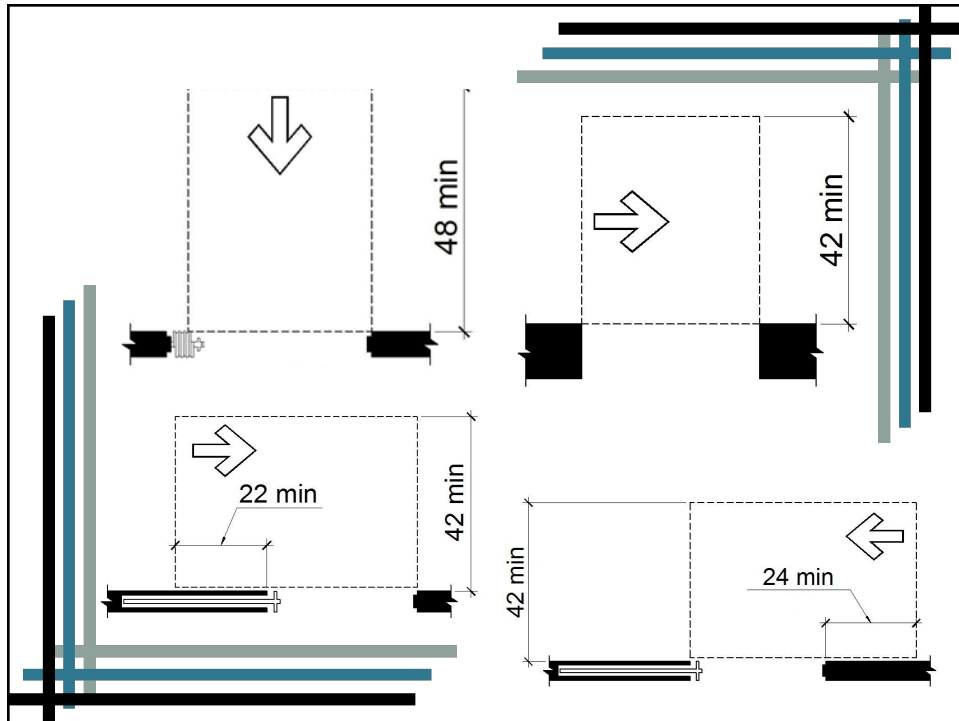





## CBC Doors, Doorways, and Gates

Table 11B-404.2.4.2  
Maneuvering Clearances at Doorways **without** Doors or Gates,  
Manual Sliding Doors, and Manual Folding Doors

Maneuvering Clearances at Doorways <b>without</b> Doors or Gates, Manual Sliding Doors, and Manual Folding Doors		
Approach Direction	Minimum Maneuvering Clearance	
	Perpendicular to Doorway	Parallel to Doorway (beyond stop/latch side)
FRONT	48 inches	0 inches
SIDE (Doorway with no door only)	42 inches	0 inches
POCKET/HINGE SIDE	42 inches	22 inches beyond the hinge side or pocket side
STOP/LATCH SIDE	42 inches	24 inches beyond the stop/latch side





## CBC

### Doors, Doorways, and Gates

**Section 11B-404.2.4.4**

### Floor or Ground Surface

- Changes in level are not permitted

**Exception:** Slopes less than 1:48


**Section 11B-404.2.4.5**

### Thresholds

- ½ inch high max.

The diagram shows a cross-section of a threshold. A red line indicates a maximum height of 1/4 inch for the main threshold. A second, higher threshold is shown with a 1:2 slope, labeled "1/2" MAX. AT 1:2 SLOPE". A 2:1 slope is also indicated for the main threshold.

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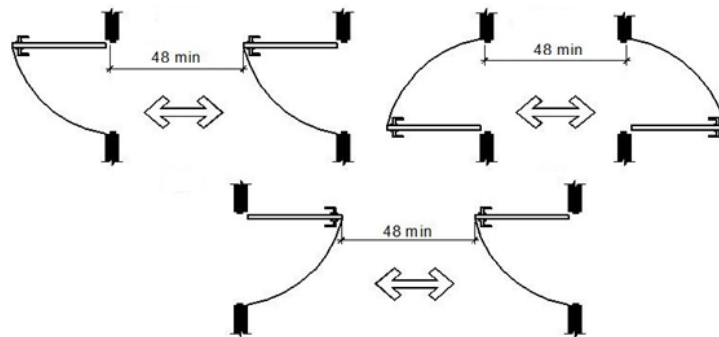


## CBC Doors, Doorways, and Gates

### Section 11B-404.2.6

#### Doors in Series and Gates in Series

- 48 inches min. plus the width of doors or gates swinging into the space



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## CBC Doors, Doorways, and Gates

### Section 11B-404.2.7

#### Door and Gate Hardware

- 34 inches min., 44 inches max.  
\*Chapter 10 – 48 max.
- Sliding door hardware, exposed and usable from both sides

#### Exceptions:

1. Existing locks permitted in any location at
  - Glazed doors without stiles
  - Overhead rolling doors or grilles, and
  - Similar doors or grilles with locks only at the top or bottom rail.

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## CBC Doors, Doorways, and Gates

### Section 11B-404.2.7

#### Door and Gate Hardware *(cont'd)*

##### Exceptions:

1. Access gates for pools and spas
  - 54 inches max. above the finish floor or ground

##### Provided

- The self-latching device is **not** also self-locking,  
**and**
  - Operated by means:
    - Key
    - Electronic opener, or
    - Integral combination lock

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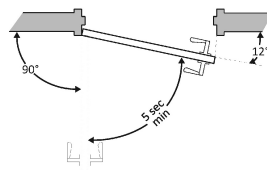
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## CBC Doors, Doorways, and Gates

### Section 11B-404.2.8.1

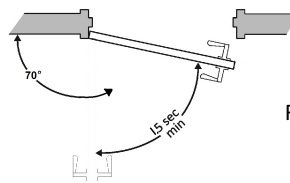
#### Door Closers and Gate Closers



From 90° to 12° = 5 sec. min.

### Section 11B-404.2.8.2

#### Spring Hinges



From 70° to Closed = 1.5 sec. min.

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## Door Closers and Gate Closers



## CBC Doors, Doorways, and Gates

### Section 11B-404.2.9

#### Door and Gate Opening Force

- Interior hinged doors and gates: → 5 pounds max.
- Sliding or folding doors: → 5 pounds max.
- Required fire doors: the min.  
force allowable by the AHJ → 15 pounds max.
- Exterior hinged doors: → 5 pounds max.
- Forces do not apply to the force required to retract  
latch bolts or disengage other devices



## CBC Doors, Doorways, and Gates

Section 11B-404.2.10

### Door and Gate Surfaces

- 10 inches of smooth surface (push side)
  - Measured vertically from the floor or ground
  - Free of sharp or abrasive edges
  - Cavities must be capped

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### Door and Gate Surfaces





## CBC Doors, Doorways, and Gates

### Section 11B-404.2.11

#### Vision Lights

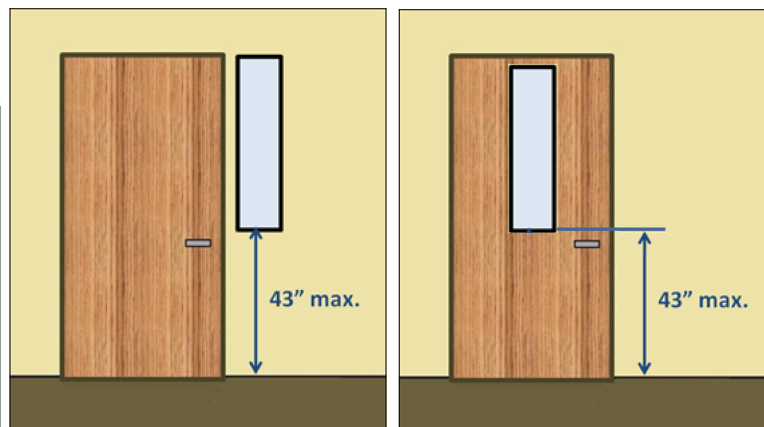
- Doors, gates, and side lights adjacent to doors or gates, with glazed panels that permit viewing
  - Bottom of at least one panel must be located 43 inches max. AFF

**Exception:** Panels greater than 66 inches AFF


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#### Vision Lights







**CBC**  
**Recreational Boating Facilities**

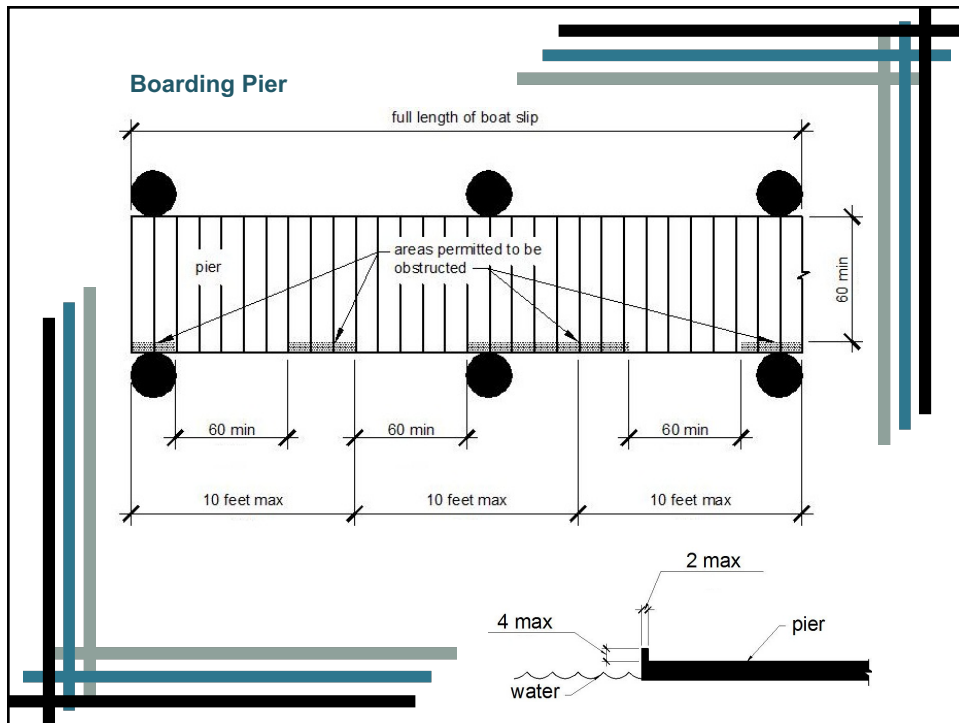
**Section 11B-1003.3**  
**Clearances**  
**Boat Slip Clearance**

- 60 inches wide min.; as long as the boat slips min.
- Each 10 feet max. of linear pier edge
  - One continuous clear opening 60 inches wide min.

**Exceptions:...**

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## CBC Exercise Machines and Equipment

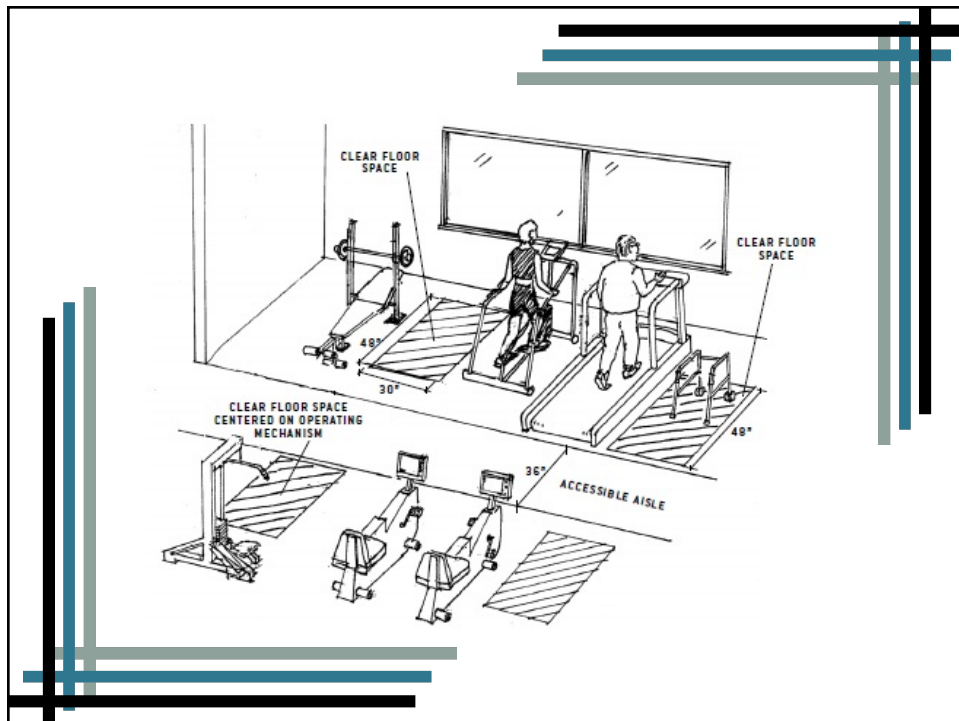
**Section 11B-1004**

### Clear Floor Space

- Positioned for transfer
- Clear floor spaces at exercise machines permitted to overlap

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## CBC Fishing Piers and Platforms

Section 11B-1005.2

### Railings

#### Height

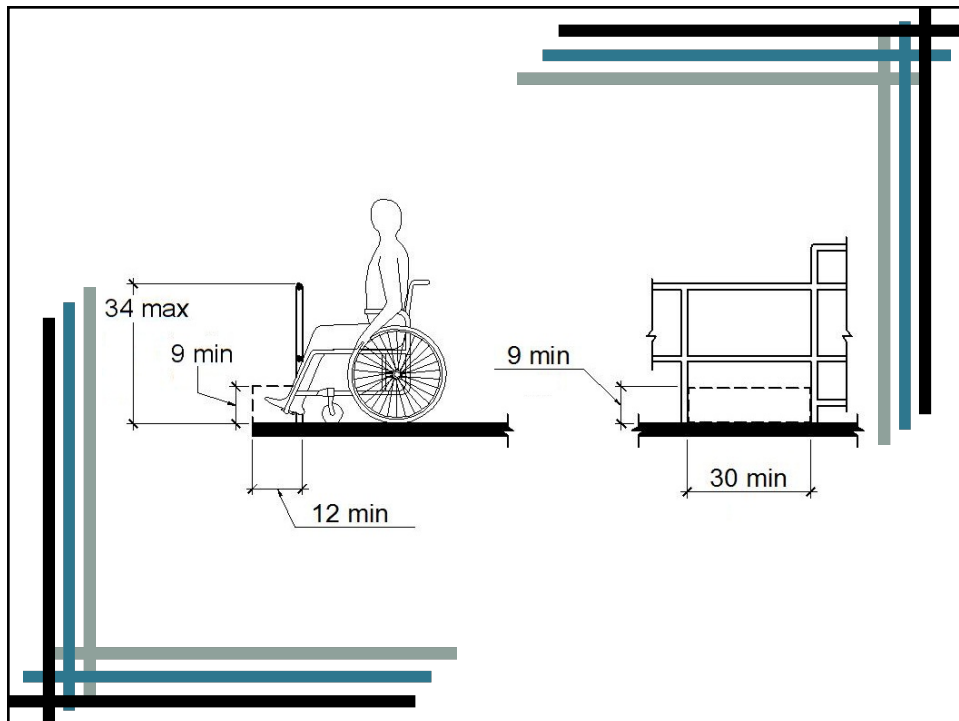
- 25% of the railings, guards, or handrails
  - 34 inches max. AFF

#### Dispersion

- Throughout the fishing pier or platform

#### Edge Protection

- 2 inches min. high
- 12 inches min. beyond the inside face of the railing
- Toe clearance 30 inches wide min. 9 inches min. AFF



## CBC Golf Facilities

Section 11B-1006.2

### Accessible Routes

- Serving tees, practice tees, putting greens, practice putting greens, driving ranges, weather shelters, golf car rental areas, bag drop areas, course toilet rooms
  - 48 inches wide min.
  - Where handrails are provided, 60 inches wide min.

**Exception:** Handrails are not required on golf courses

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## CBC Miniature Golf Facilities

### Section 11B-1007.2

#### Accessible Route

##### Exceptions:

1. Carpet
2. Where route intersect playing surfaces
  - 1 inch max. curb permitted , 32 inches min. width
3. 1:4 for 4 inches max. rise
4. Ramp landings
  - 1:20 max.
5. 48 inches min. landing length
6. Landing at change of direction
  - 48 inches min. by 60 inches min.

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## CBC Miniature Golf Facilities

### Section 11B-1007.3

#### Miniature Golf Holes

##### Start of Play

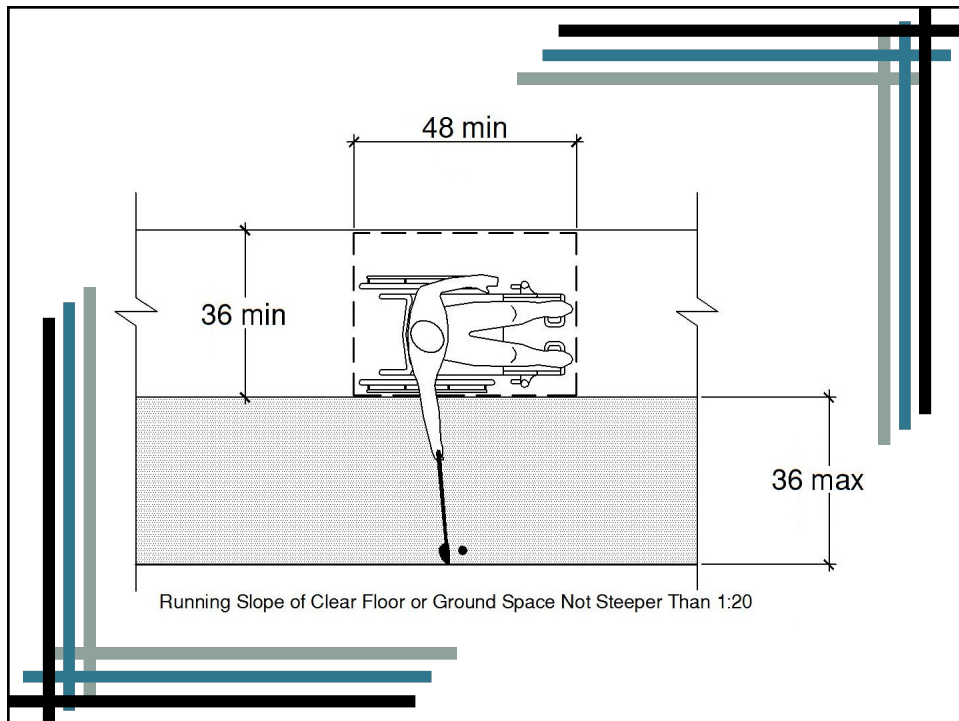
- 48 inches min. by 60 inches min.

##### Golf Club Reach Range Area

- All areas within holes where golf balls rest
  - Within 36 inches max. from a clear floor space measuring 36 inches min. by 48 inches max.
  - 1:20 max. slope

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## CBC Play Areas

Section 11B-1008.2

### Accessible Routes *(cont'd)*

**Clear Width** (ground level)

- 60 inches min.
- Exception:** Less than 1000 square feet
  - 44 inches min.
  - If**
    - Turning space if access is greater than 30 feet

**Clear Width** (elevated)

- 36 inches min.

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## CBC Play Areas

Section 11B-1008.2

### Accessible Routes *(cont'd)*

#### Ramps (ground level)

- 1:16 max. slope

#### Ramps (elevated)

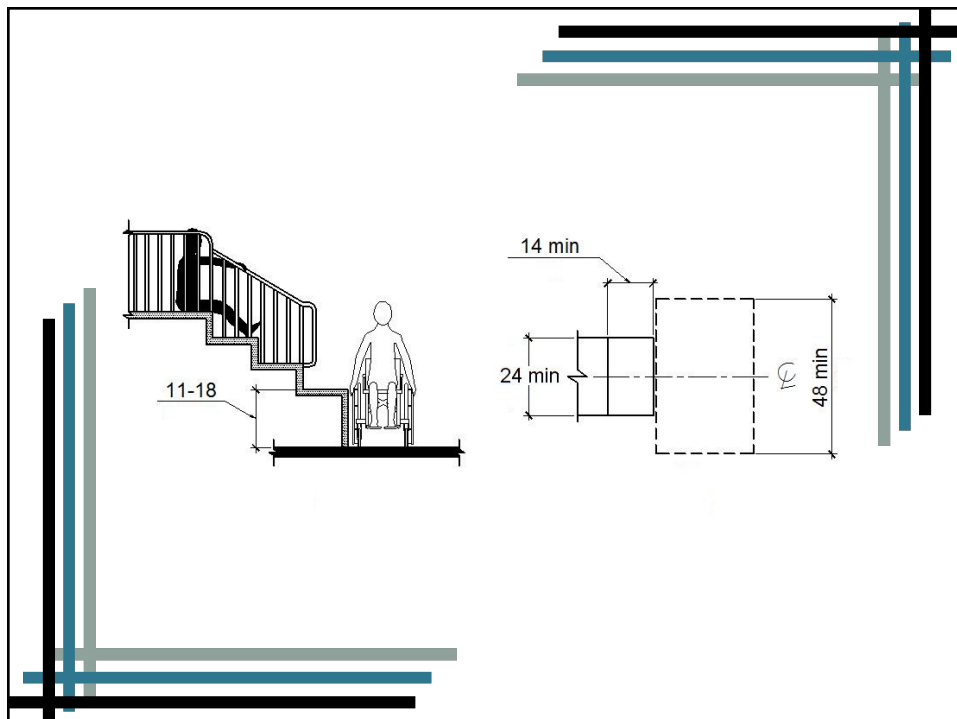
- 12 inches max. rise

#### Ground Surface

- ASTM F 1951

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## CBC Swimming Pools, Wading Pools, and Spas

### Section 11B-1009.2

#### Pool Lifts

##### Location

- Where water level is 36 inches min. to 48 inches max.

##### Exception:

1. Entire pool is greater than 48 inches deep or less than 36 inches deep
2. Multiple pool lifts
3. Entire pool is less than 36 inches deep

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## CBC Swimming Pools, Wading Pools, and Spas

### Section 11B-1009.2

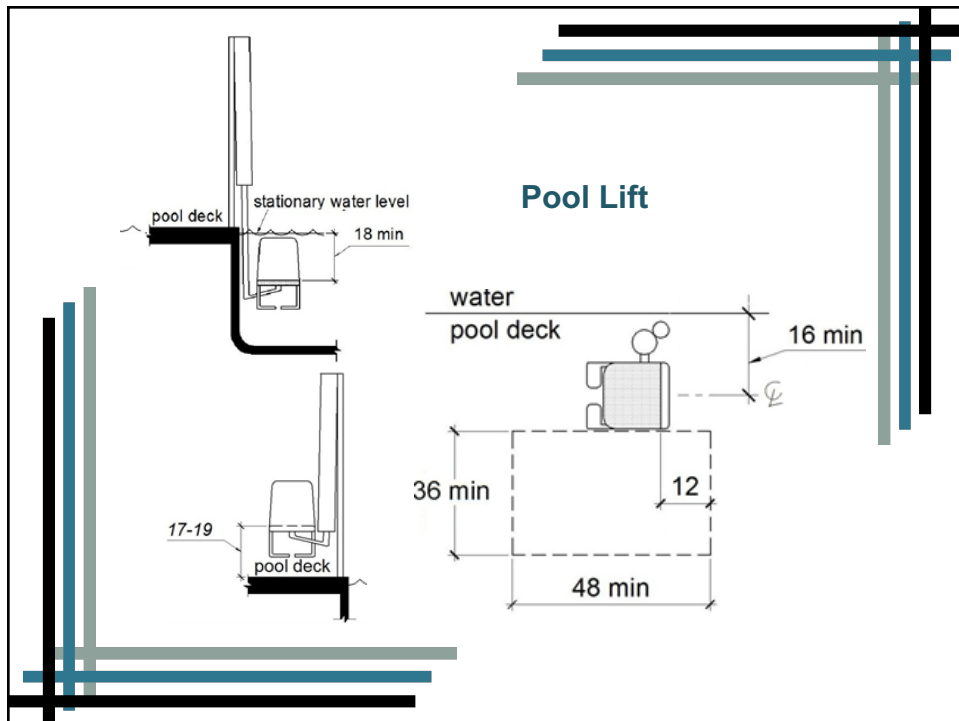
#### Pool Lifts *(cont'd)*

##### Seat

- Back support min. 12 inches high
- Seat width 16 inches min.
- Restraints
- Operable parts
- Foot rests
  - Exception: Spas
- Two arm rests (moveable or removable)
- Unassisted operation

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## CBC Swimming Pools, Wading Pools, and Spas

Section 11B-1009.4

### Sloped Entry

#### Submerged Depth

- Extend to a depth of 24 inches min. 30 inches max. below the stationary water level

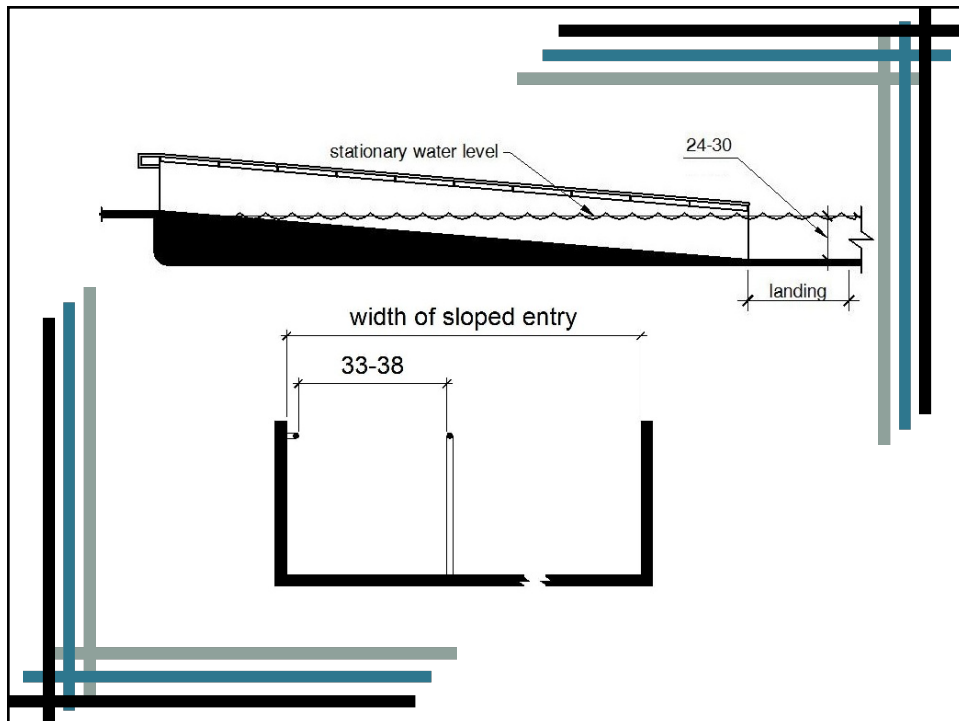
**Exception:** Wading pools – deepest part


#### Handrails

- Min two handrails
  - Clear width apart 33 inches min. to 38 inches max.

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## CBC Swimming Pools, Wading Pools, and Spas

**Section 11B-1009.6**

### Pool Stairs

- No min's or max's riser heights - uniform
- 20 inches min. to 24 inches max. between handrails
- No extensions required

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